



Thiobacillus organoparus Markosian

27977™

Description

Deposited As: *Thiobacillus organoparus* Markosian

Type strain: No

Storage Conditions

Product format: Freeze-dried

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is

important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:

ATCC Medium 806: Thiobacillus heterotrophic medium

Temperature: 26°C

Handling Procedures

1. Open vial according to enclosed instructions.
2. Withdraw 0.8 ml from a single tube (5 to 6 ml) of #806 broth with a Pasteur or 0.1 ml pipette. Rehydrate the pellet.
3. Aseptically transfer 0.5 ml back into the broth tube. Inoculate a slant tube with the remaining 0.3 ml. Additional broth tubes may be inoculated with 0.5 ml each from the initial broth tube.
4. After approximately 4 days of incubation, growth should be evident by turbidity in

the broth tubes and turbidity in the broth at the base of the agar slant. It can take up to 14 days for good colony formation on agar. Cells are short motile rods occurring singly and in pairs. Cells are Gram negative.

5. After good growth is achieved in tubes, flasks of broth may be inoculated. A 5 to 10% inoculum is recommended per flask (5 to 10 ml per 100 ml media). Flasks should be incubated with shaking.

Notes

This culture does not readily form colonies on agar. Additional information on this culture is available on the ATCC web site at www.atcc.org.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Thiobacillus organoparus* Markosian (ATCC 27977)

References

References and other information relating to this material are available at www.atcc.org.

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